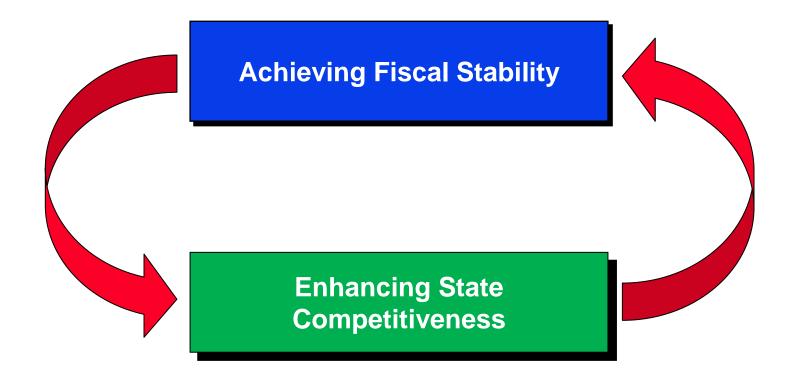
Pennsylvania Competitiveness: Creating a State Economic Strategy



March 28, 2012

The Economic Challenge for Governors in 2012



What is Competitiveness?

- Competitiveness is the productivity with which a state utilizes its human, capital, and natural endowments to create value
- Productivity determines wages, jobs, and the standard of living
- It is not what fields a state competes in that determines its prosperity, but how productively it competes

Where Does Productivity Come From?

Businesses and government play different but interrelated roles in creating a productive economy

- Only businesses can create jobs and wealth
- States compete to offer the most productive environment for business

Agenda

1. How is your state doing? State Performance Scorecard

2. Why? Explaining your state's performance, strengths, and weaknesses

3. Where to go from here? Action Steps

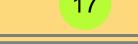
Pennsylvania Performance Scorecard



Leading Clusters

by employment size, 2009 (national rank)







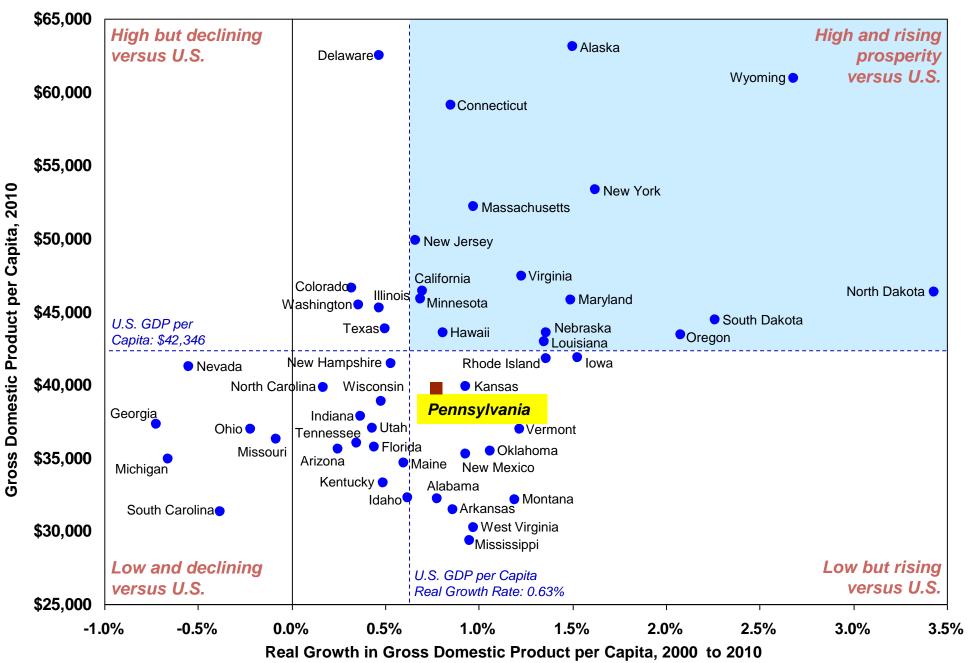
41-50

11-20

- Metal Manufacturing (3)
- Lighting and Electrical Equipment (2)
- Biopharmaceuticals (6)
- Apparel (4)

Comparative State Prosperity Performance

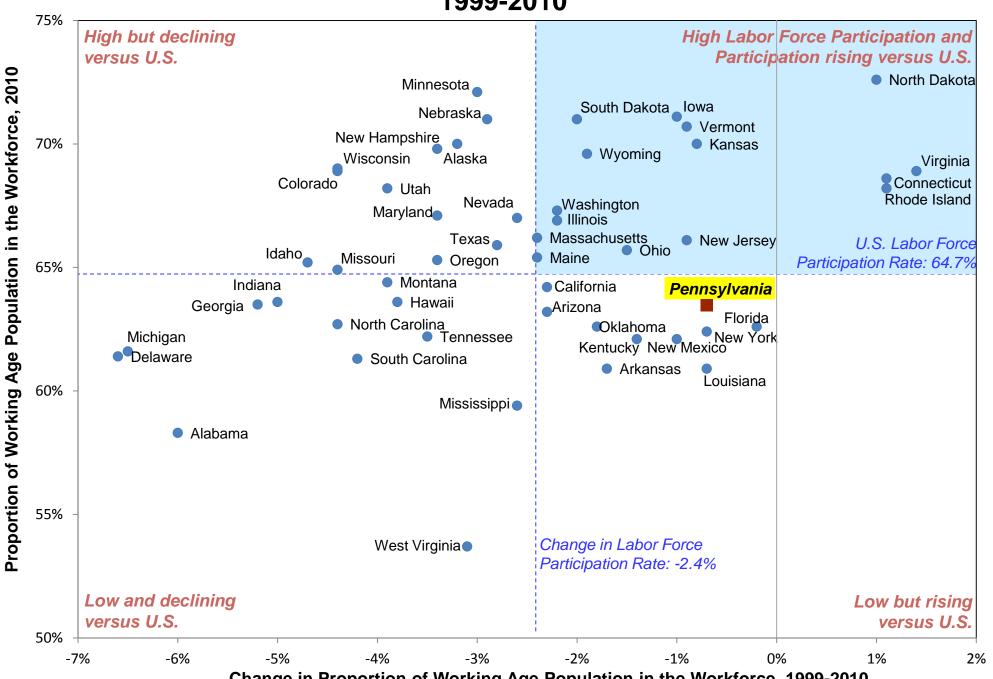
2000 - 2010



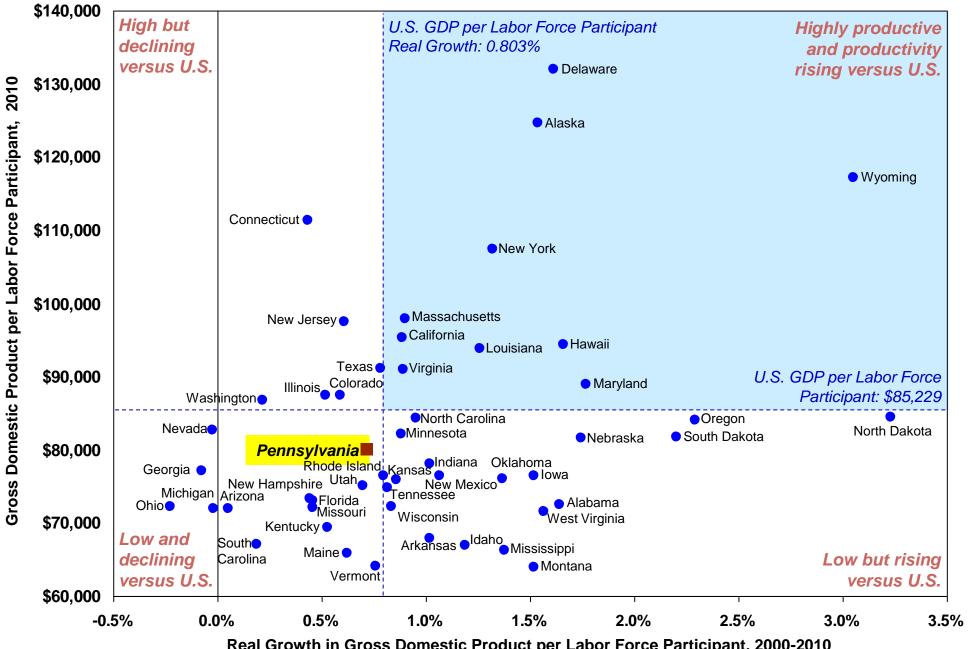
Source: BEA. Notes: GDP in real 2005 dollars. Growth rate is calculated as compound annual growth rate.

Comparative State Labor Mobilization Performance

1999-2010

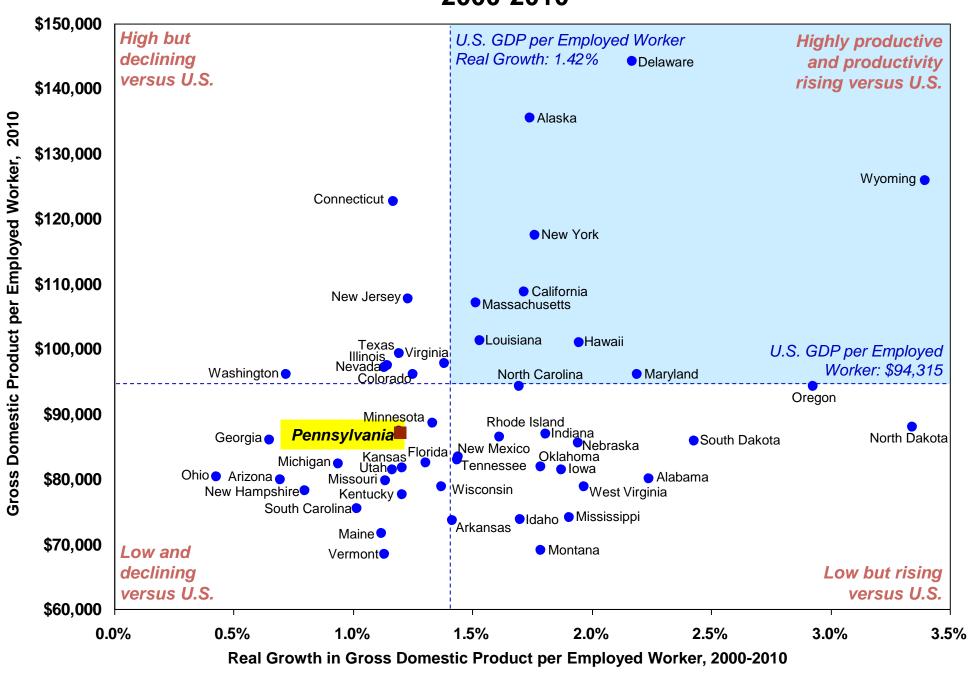


Comparative State Labor Force Productivity Performance 2000-2010

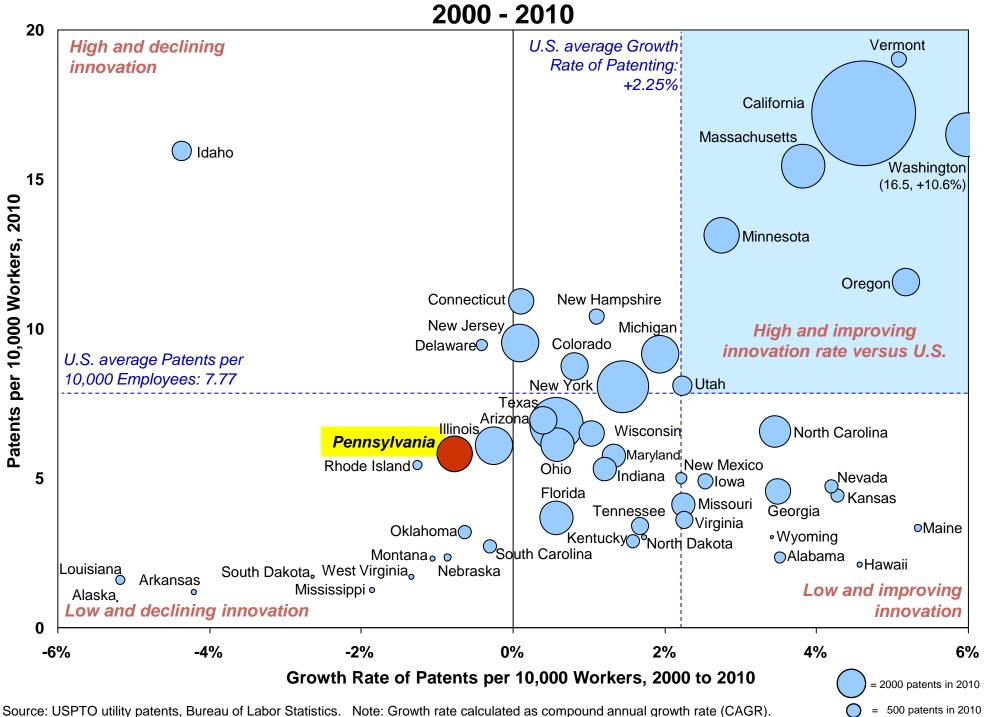


Real Growth in Gross Domestic Product per Labor Force Participant, 2000-2010

Comparative State Employee Productivity Performance 2000-2010



Comparative State Innovation Performance



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Why? What Drives State Productivity?

1. Quality of the Overall Business Environment

2. Cluster Development

3. Policy
Coordination
among Multiple
Levels of
Geography/
Government

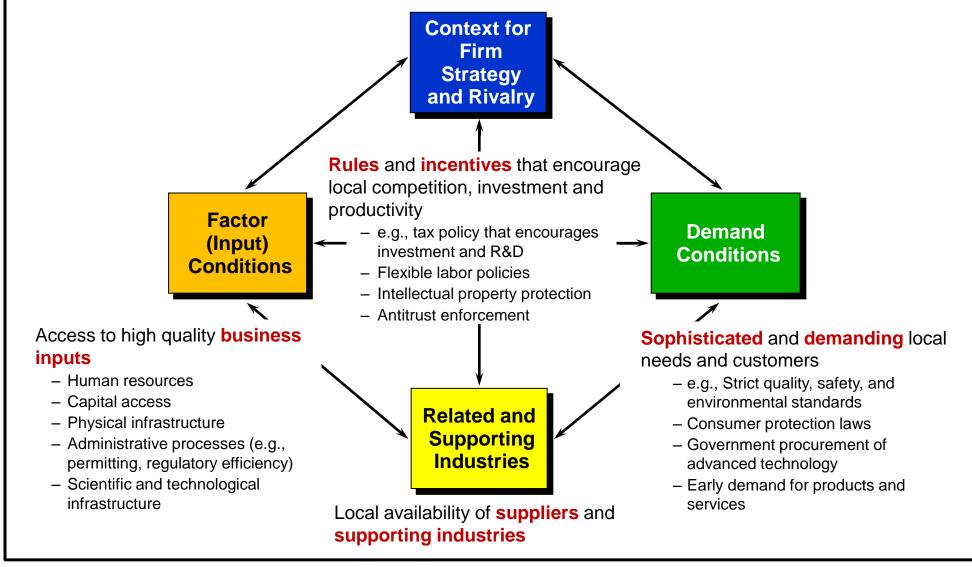
Why? What Drives State Productivity?

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Government

Quality of the Overall Business Environment





- Many things matter for competitiveness
- Economic development is the process of improving the business environment to enable companies to compete in increasingly sophisticated ways

Improving the Business Environment Common Action Items

- Simplify and speed up regulation and permitting
- 2. Reduce unnecessary costs of doing business
- Establish training programs that are aligned with the needs of the state's businesses
- Focus infrastructure investments on the most leveraged areas for productivity and economic growth
- 5. Design all policies to support emerging growth companies
- Protect and enhance the state's higher education and research institutions
- Relentlessly improve the public education system, the essential foundation for productivity in the long run

Why? What Drives State Productivity?

1. Quality of the Overall Business Environment

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Coordination
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Geography/
Government

What is a Cluster?

A geographically concentrated group of interconnected companies and associated institutions in a particular field





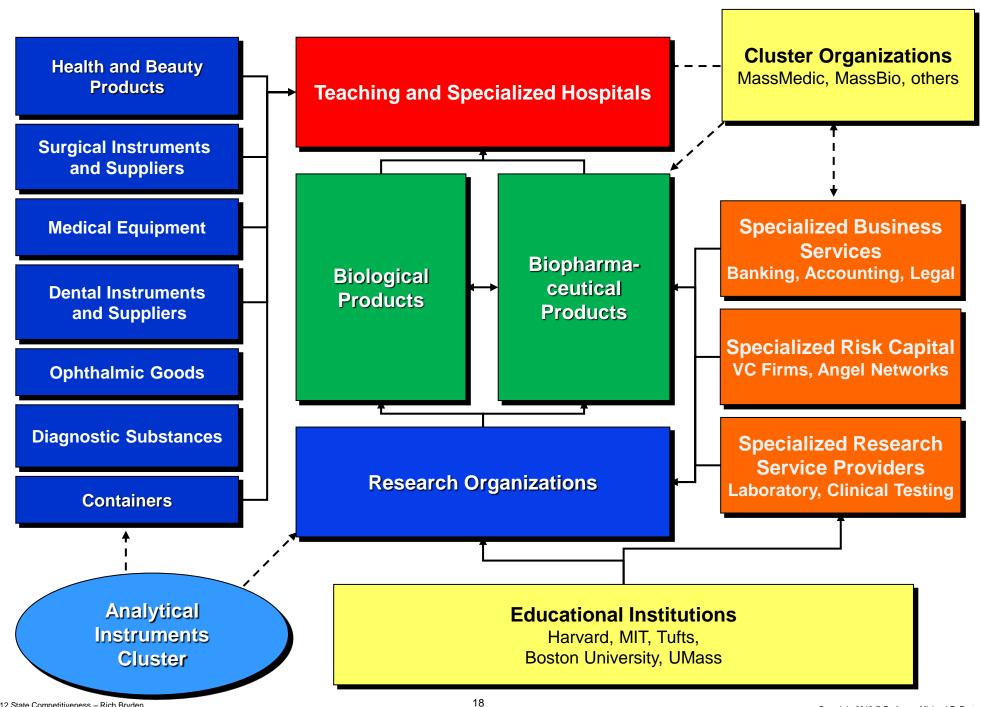
Traded Clusters

- Compete to serve national and international markets
- Can locate anywhere
- 30% of employment

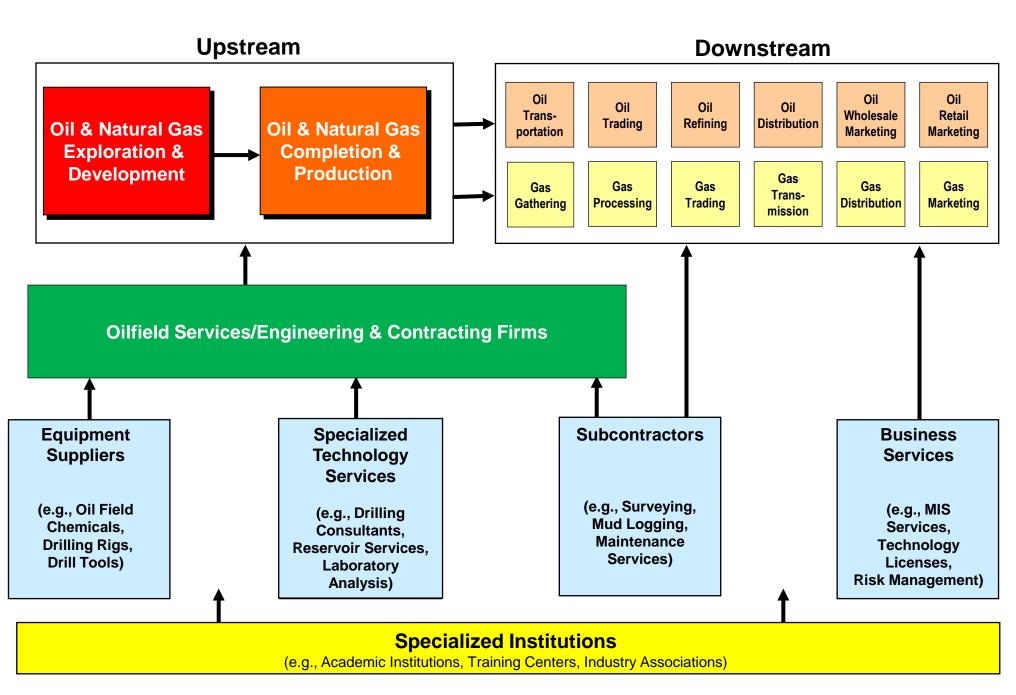
Local Clusters

- Serve almost exclusively the local market
- Not directly exposed to cross-regional competition
- 70% of employment

Example: Massachusetts Life Sciences Cluster



Example: Houston Oil and Gas Cluster



Strong Clusters Drive Regional Performace

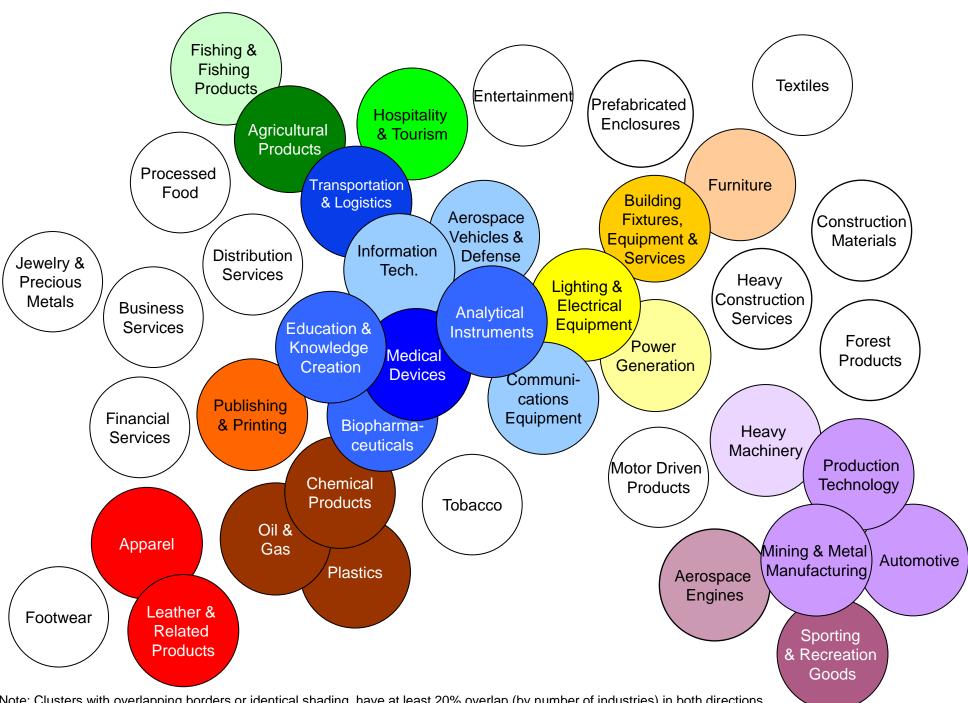
- Specialization in strong clusters
- Breadth of industries within each cluster
- Strength in related clusters
- Presence of a region's clusters in neighboring regions



- Job growth
- Higher wages
- Higher patenting rates
- Greater new business formation, growth and survival

On average, cluster strength is much more important (78.1%) than cluster mix (21.9%) in driving regional performance in the U.S.

Clusters and Economic Diversification



Note: Clusters with overlapping borders or identical shading have at least 20% overlap (by number of industries) in both directions.

The Evolution of Regional Economies <u>San Diego</u>

Climate and Geography **Hospitality and Tourism**

Transportation and Logistics

Sporting Equipment

U.S. Military Aerospace Vehicles and Defense

Communications Equipment

Analytical Instruments

Power Generation

Information Technology

Education and Knowledge Creation

Medical Devices

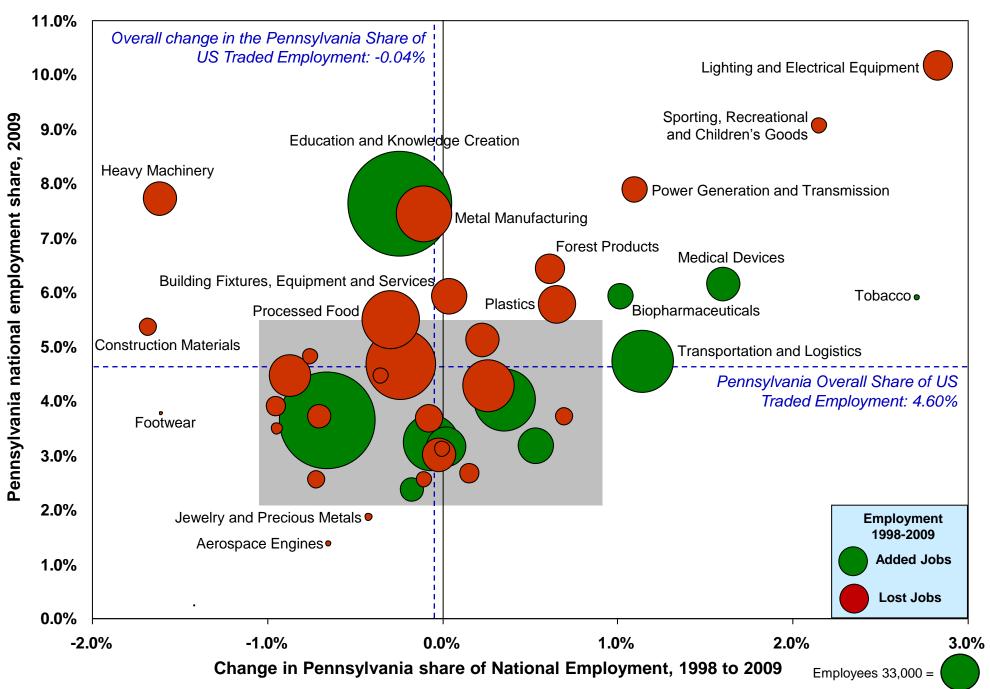
Bioscience Research Centers

22

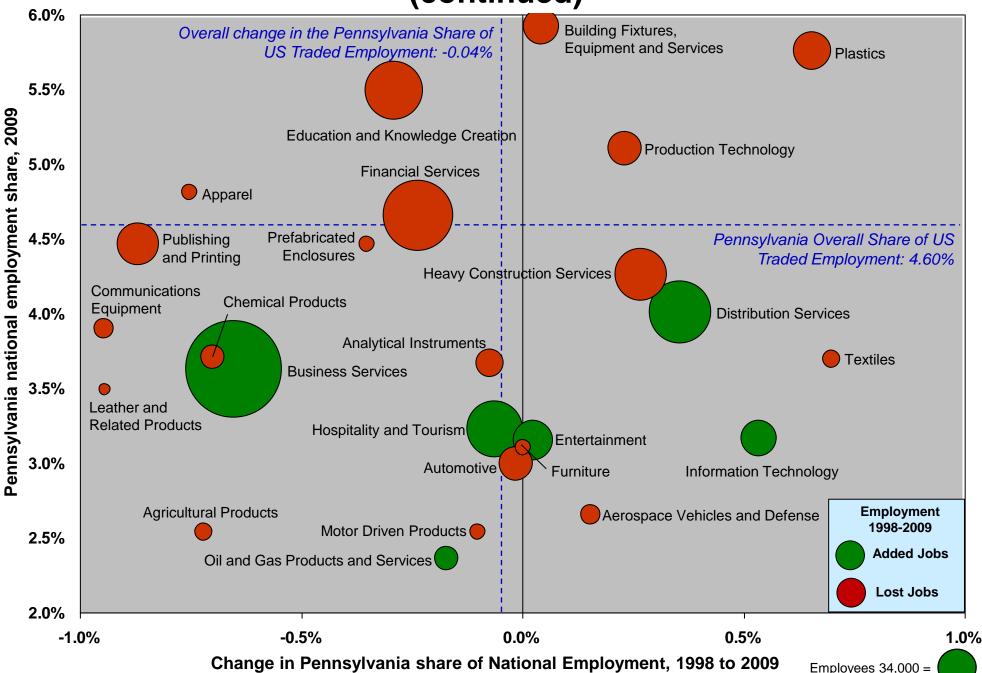
Biotech / Pharmaceuticals

1910 1930 1950 1970 1990

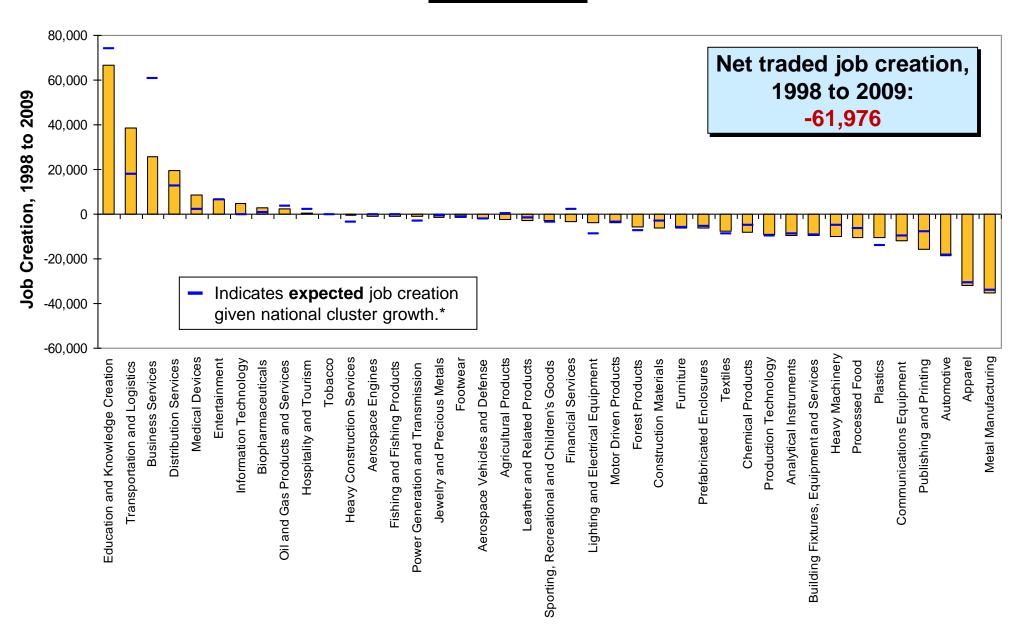
Traded Cluster Composition of the Pennsylvania Economy



Traded Cluster Composition of the Pennsylvania Economy (continued)

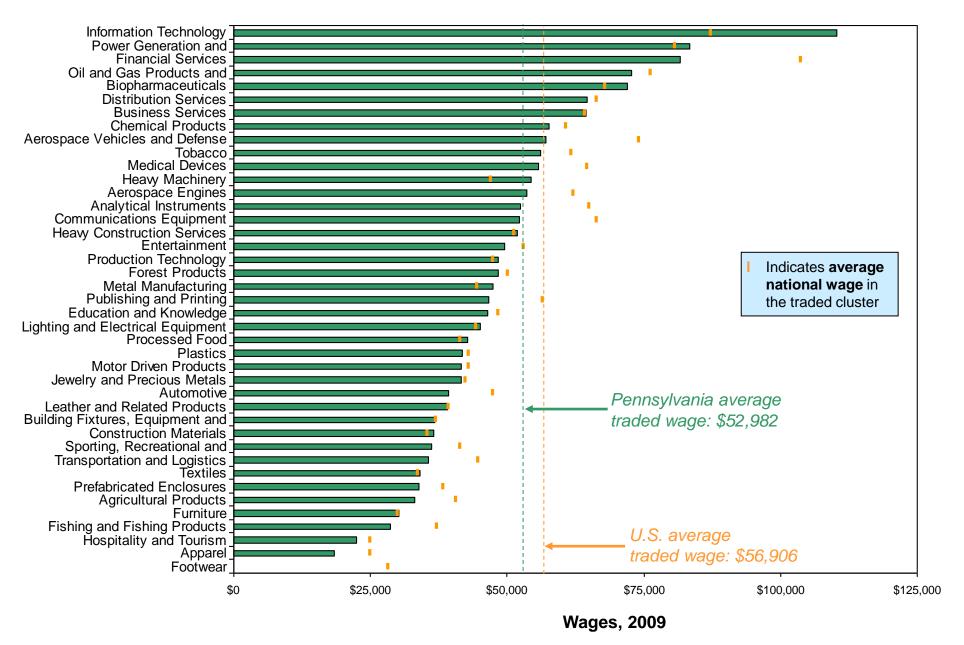


Pennsylvania Job Creation in Traded Clusters 1998 to 2009



^{*} Percent change in national benchmark times starting regional employment. Overall traded job creation in the state, if it matched national benchmarks, would be -45,713 Source: Prof. Michael E. Porter, Cluster Mapping Project, Institute for Strategy and Competitiveness, Harvard Business School; Richard Bryden, Project Director.

Pennsylvania Wages in Traded Clusters vs. National Benchmarks



Source: Prof. Michael E. Porter, Cluster Mapping Project, Institute for Strategy and Competitiveness, Harvard Business School; Richard Bryden, Project Director.

Productivity Depends on How a State Competes, Not What Industries It Competes In

State	State Traded Wage versus National Average	Cluster Mix Effect	Relative Cluster Wage Effect
Connecticut	+27,171	7,028	20,142
New York	+24,102	3,628	20,474
Massachusetts	+16,169	4,391	11,778
New Jersey	+13,535	3,761	9,774
California	+9,573	349	9,224
Maryland	+6,651	2,496	4,155
Washington	+5,652	2,692	2,960
Virginia	+5,319	1,617	3,702
Illinois	+2,658	16	2,642
Colorado	+1,662	2,416	-754
Texas	+352	2,494	-2,142
Delaware	+164	11,060	-10,896
Alaska	-930	-2,417	1,487
Pennsylvania	-3,970	-995	-2,975
Louisiana	-4,280	95	-4,375
Georgia	-5,322	-1,102	-4,220
Minnesota	-5,576	-425	-5,150
New Hampshire	-6,387	374	-6,761
Arizona	-7,021	1,149	-8,169
Kansas	-7,705	2,241	-9,946
Wyoming	-8,057	1,040	-9,097
Michigan	-8,176	-2,544	-5,633
North Carolina	-9,245	-4,330	-4,915
Ohio	-9,284	-2,495	-6,788
Rhode Island	-9,791	-2,290	-7,501

State	State Traded Wage versus National Average	Cluster Mix Effect	Relative Cluster Wage Effect
Oregon	-10,359	-1,304	-9,056
Missouri	-10,427	-1,425	-9,002
Alabama	-10,934	-3,563	-7,371
Florida	-11,007	-1,559	-9,448
Wisconsin	-11,722	-3,516	-8,206
Nebraska	-11,777	241	-12,018
Utah	-11,992	2,072	-14,064
Tennessee	-12,172	-3,156	-9,016
Indiana	-12,554	-4,840	-7,714
Vermont	-13,368	-1,572	-11,796
Oklahoma	-13,572	497	-14,069
Nevada	-14,277	-2,365	-11,911
North Dakota	-14,394	1,004	-15,397
South Carolina	-15,276	-5,067	-10,209
Arkansas	-15,378	-4,560	-10,818
Hawaii	-16,043	-12,555	-3,487
New Mexico	-16,123	-288	-15,835
Kentucky	-16,215	-5,024	-11,191
Maine	-16,379	-968	-15,412
Iowa	-16,606	-2,721	-13,885
West Virginia	-16,645	-3,894	-12,751
Idaho	-18,671	-787	-17,884
Mississippi	-19,942	-5,291	-14,651
Montana	-20,073	-2,259	-17,815
South Dakota	-20,968	289	-21,257

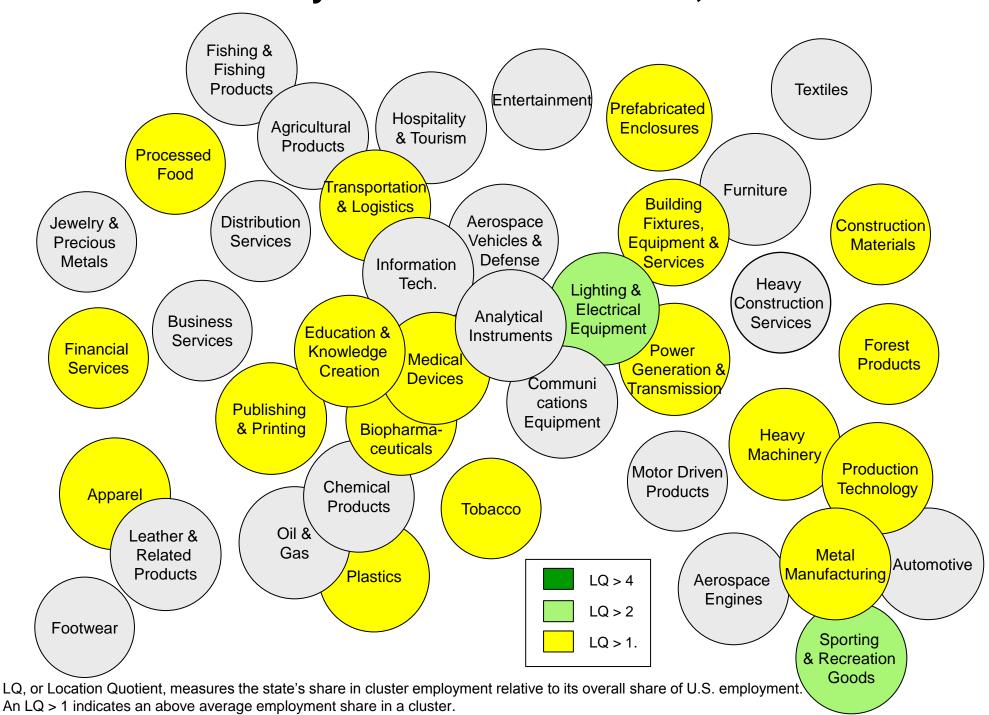
On average, cluster strength is much more important (78.1%) than cluster mix (21.9%) in driving regional performance in the U.S.

Source: Prof. Michael E. Porter, Cluster Mapping Project, Institute for Strategy and Competitiveness, Harvard Business School; Richard Bryden, Project Director. 2009 data.

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Pennsylvania Cluster Portfolio, 2009

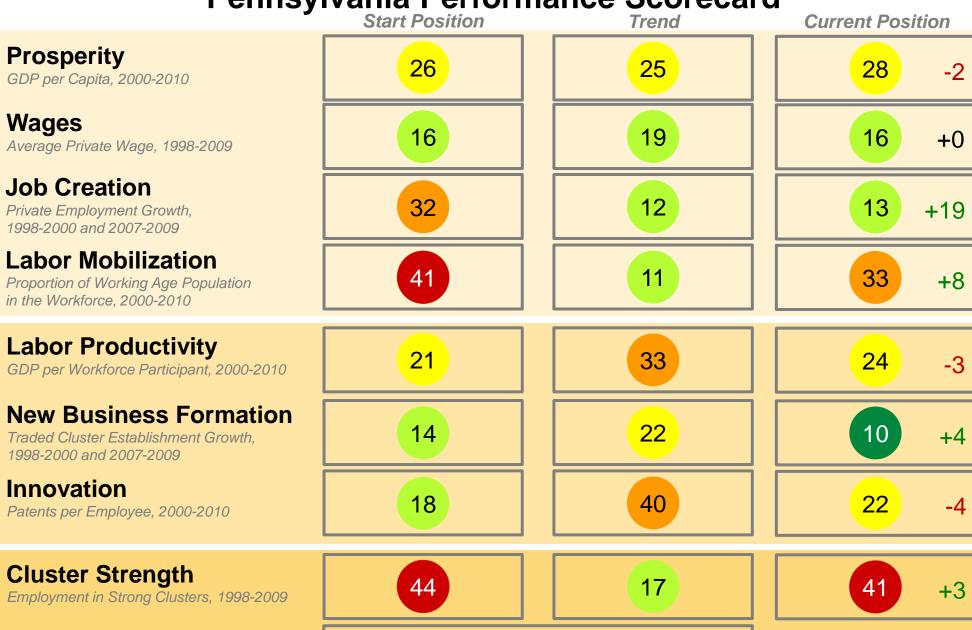


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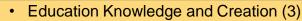
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Pennsylvania Performance Scorecard



Leading Clusters

by employment size, 2009 (national rank)



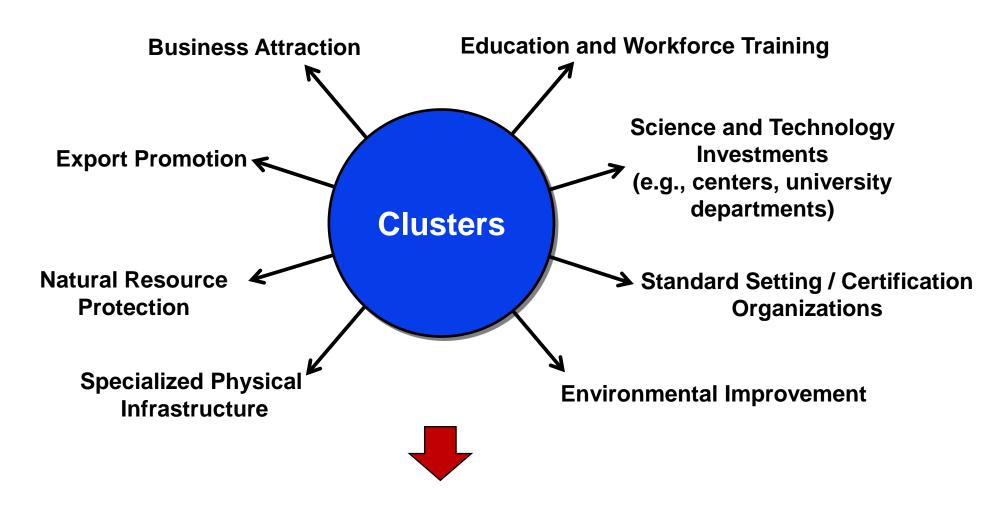
- Metal Manufacturing (3)
- Lighting and Electrical Equipment (2)
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- Apparel (4)

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Cluster Development Common Action Items

- Build on the state's existing and emerging clusters rather than chase "hot" fields
- Pursue economic diversification within clusters and across related clusters
- 3. Create a private sector-led **cluster upgrading program** with matching support for participating private sector cluster organizations
 - Government should listen and remove obstacles to cluster improvement
- 4. Align other state economic policies and programs with clusters

Aligning Economic Policy and Clusters



 Clusters provide a framework for organizing the implementation of many public policies and public investments to achieve greater effectiveness

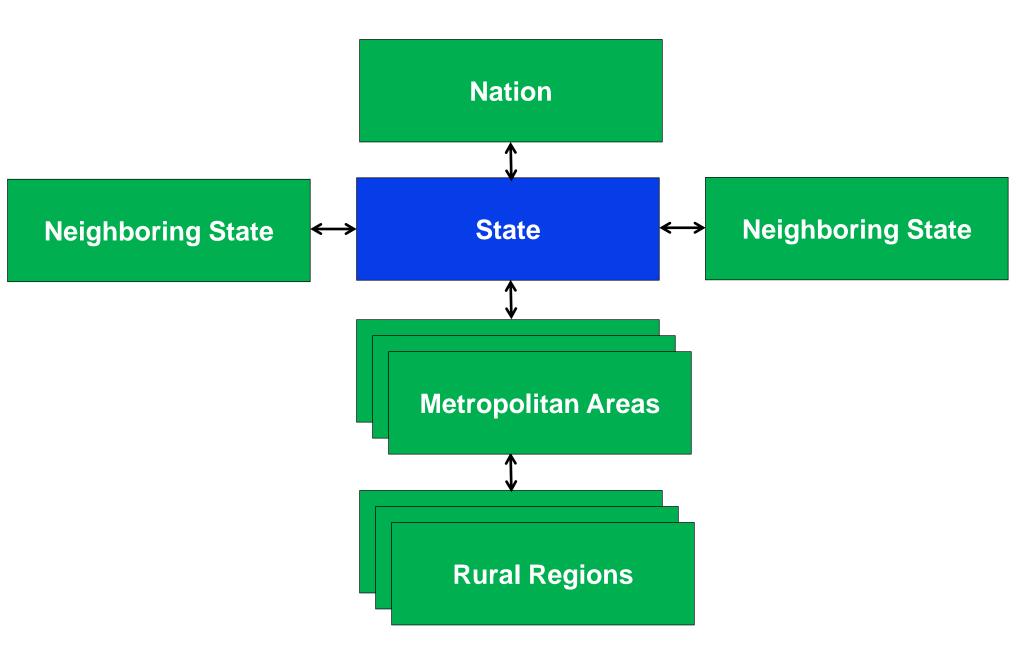
Why? What Drives State Productivity?

1. Quality of the Overall Business Environment

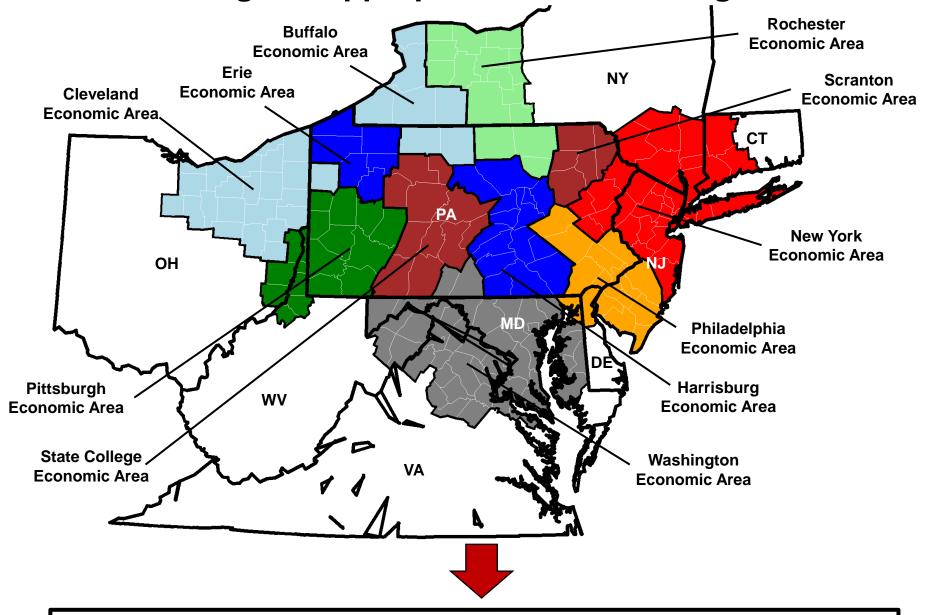
2. Cluster Development

3. Policy
Coordination
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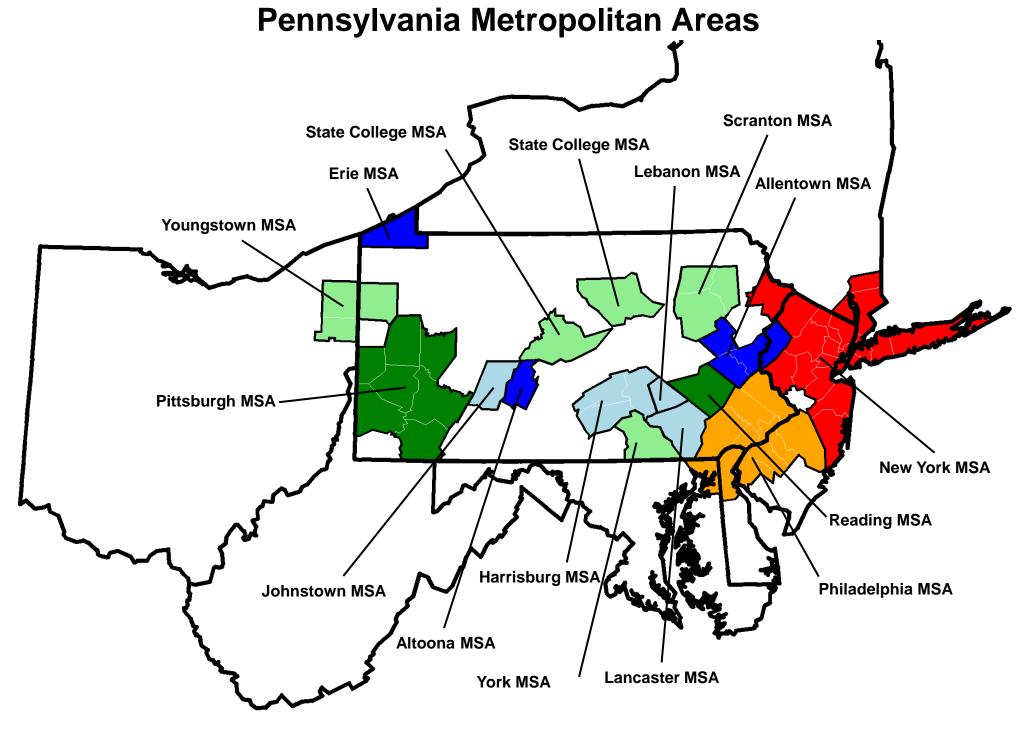
Geographic and Governmental Influences on Productivity



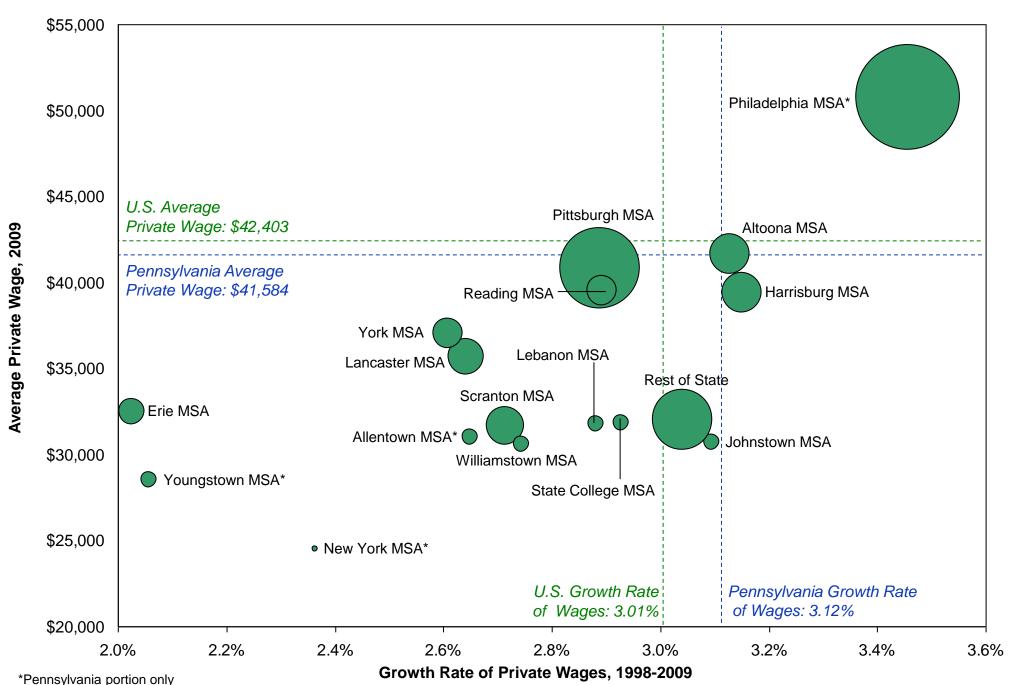
Defining the Appropriate Economic Regions



The economies of states are often an aggregation of distinct economic areas with differing circumstances

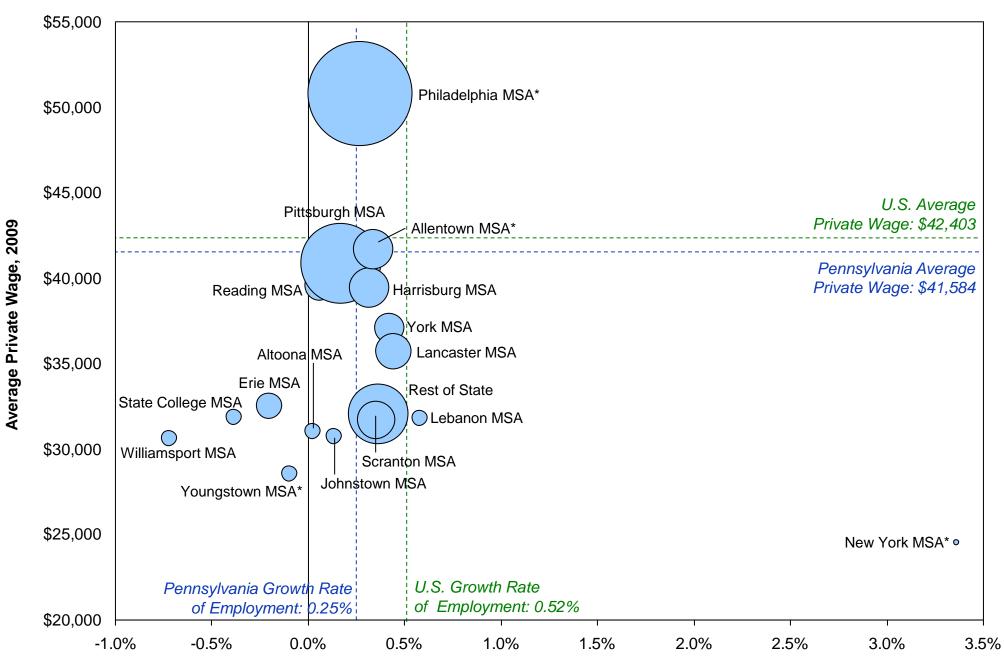


Wage Performance in Pennsylvania Metropolitan Areas



Source: Census CBP, authors' analysis. Note: "Bubble" size in chart is proportional to employment in 2009.

Employment Performance in Pennsylvania Metropolitan Areas

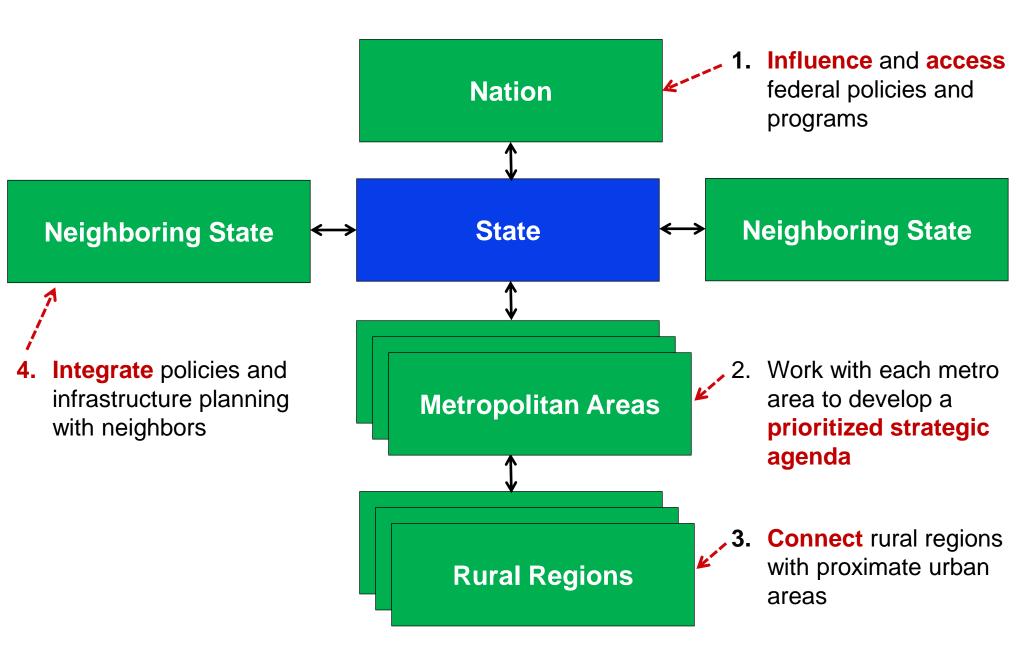


^{*}Pennsylvania portion only

Growth Rate of Private Employment, 1998-2009

Source: Census CBP, authors' analysis. Note: "Bubble" size in chart is proportional to employment in 2009. 2012 State Competitiveness - Rich Bryden

Geographic and Governmental Influences on Productivity



Agenda

1. How is your state doing? State Performance Scorecard

2. Why? Explaining your state's performance, strengths, and weaknesses

3. Where to go from here? Action Steps

Agenda

1. How is your state doing? State

State Performance Scorecard

2. Why?

Explaining your state's performance, strengths, and weaknesses

3. Where to go from here?

Action Steps



Biggest Action Item of All

Create an Economic Strategy

- What is the distinctive competitive position of the state or region given its location, legacy, existing strengths, and potential strengths?
 - What unique value as a business location?
 - For what types of activities and clusters?

Define the Value Proposition





Develop Unique Strengths

- What elements of the business environment can be unique strengths relative to peers/neighbors?
- What existing and emerging clusters represent local strengths?

Achieve and Maintain Parity with Peers

 What weaknesses must be addressed to remove key constraints and achieve parity with peer locations?



 Economic strategy requires setting priorities and moving beyond long lists of separate recommendations.

How Should States Compete for Investment?

Tactical (Zero Sum Competition)



Strategic (Positive Sum Competition)

- Focus on attracting new investments
- Compete for every plant
- Offer generalized tax breaks
- Provide subsidies to lower / offset business costs
- Every city and sub-region for itself
- Government drives investment attraction

- Also support greater local investment by existing companies
- Reinforce areas of specialization and emerging cluster strength
- Provide state support for training, infrastructure, and institutions with enduring benefits
- Improve the efficiency of doing business
- Harness efficiencies and coordination across jurisdictions, especially with neighbors
- Government and the private sector collaborate to build cluster strength

Harnessing the New Process of Economic Development

Competitiveness is the result of both **top-down** and **bottom-up processes** in which many companies and institutions take responsibility

Old Model

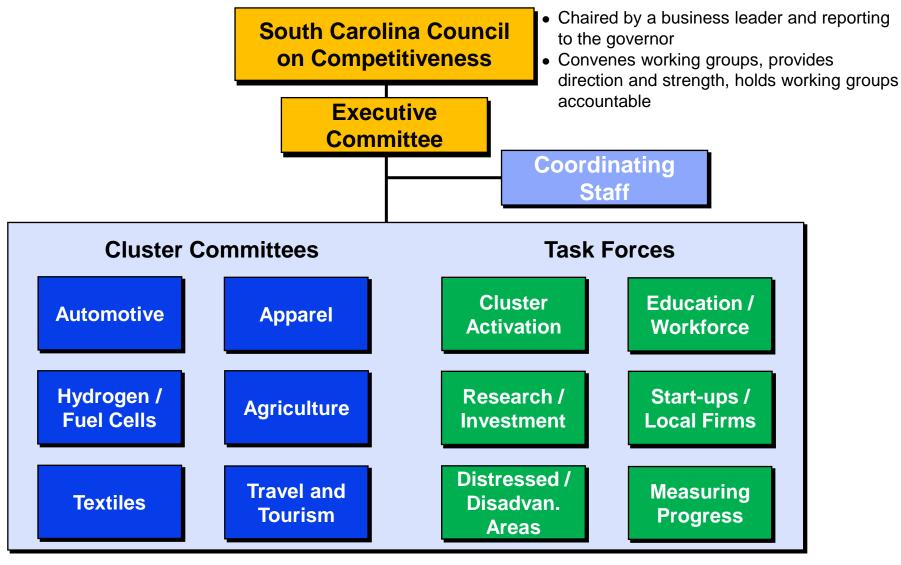
 Government drives economic development through policy decisions and incentives



New Model

 Economic development is a collaborative process involving government at multiple levels, companies, teaching and research institutions, and private sector organizations

Example: Organizing for Economic Development





Effective economic policy also requires coordination within government

Summary

- The goal of economic strategy is to enhance **productivity**. This is the only way to create jobs, high income, and wealth in the long run
- Improving productivity and innovation must be the guiding principles for every state policy choice
- Improving productivity does not require new public resources, but using existing resources better
- Improving productivity demands that governors mobilize the private sector, not rely on government alone
- Economic strategy is non-partisan and about getting results

Next Steps

- 1. Reach out to your team
- Reach out to the business community
- Take advantage of Harvard Business School data and tools to support this effort. Go to www.isc.hbs.edu.



The prosperity of the **U.S. economy** will depend more on the success of states in improving competitiveness than what happens in Washington